

Plants coll by A. S. Kalenborn & Min.
Margaret Kalenborn, near Oroya, Peru.

Have written to Kalenborn at San Francisco
to ask better data for labels.

These plants have been paid for.

965

- 1 *Brassica campestris* L.
- 2 *Trifolium*
- 3 *Taraxacum*
- 4 *Ranunculus praemorsus* L.
- 5 *Bomarea involucrosa* (Herb.) Bak.
- 6 *Capsella Bursa-pastoris* (L.) Medic.
- 7
- 8 *Plantago monticola* Dene.
- 9 *Erodium cicutarium* (L.) L'Herit.
- 10
- 11 *Gentiana prostrata* Haenke
- 12 *Crocopsis fulgens* Pax
- 13
- 14
- 15
- 16
- 17 *Portulaca*
- 18
- 19 *Epilobium*
- 20 *Lepidium*
- 21
- 22 *Stachys pusilla* (Wedd.) Briq.
- 23 *Alstroemeria pygmaea* Herb.
- 24 *Saxifraga magellanica* Poir.
- 25
- 26 *Solanum nigrum* L.
- 27
- 28 *Bartsia*?
- 29 *Hieracium*
- 30
- 31 *Vicia*
- 32 *Lamium amplexicaule* L.
- 33 ? *Pescuarinia*
- 34 *Chusqueira*
- 35
- 36 *Verbena*
- 37
- 38
- 39 *Salvia oppositiflora* R. & P. ! Epling
- 40
- 41 *Oenothera campylocalyx* Koch & Bouché
- 42 *Knaphalium*
- 43
- 44
- 45
- 46 sterile - discarded -
- 47
- 48 *Cajophora pauciseta* Killip isotype
- 49 *Trifolium*
- 50
- 51
- 52 *Relbunium ciliatum* (R. & P.) Hemsl. ! Standley
- 53
- 54
- 55 *Lobelia nana* H. B. K. var. *cymbalarioides* (A. Zahlbr.) E. Wimm. ! Wimmer
- 56
- 57 *Werneria rubiginea* H. B. K.
- 58
- 59
- 60 *Cardamine*
- 61 ? *Erigeron*
- 62 *Daucus montanus* H. & B.

- 63 *Lupinus Kalenbornorum* C. P. Smith isotype
 64 *Plantago*
 65
 66
 67
 68 *Monnina*
 69
 70 *Alternanthera paniculata* HBK.
 71
 72 *Hydrocotyle bonairiensis* Lam.
 73
 74 *Senecio*
 75
 76 *Salvia sagittata* R. & P. ! Epling
 77 *Spartium junceum* L.
 78
 79 *Castilleja*
 80 *Geranium*
 81
 82 *Satureja Pavoniana* Briq. ! Epling
 83
 84
 85 *Cerastium vulgatum* L.
 86
 87
 88
 89 *Gomphrena oroyana* Standl.
 90 *Oxalis pubescens* HBK. ! Knuth
 91 *Halenia caespitosa* Hilg. ! Allen
 92 *Baccharis alpina* HBK.
 93 *Astragalus Garbancillo* Cav.
 94
 95 ? *Werneria*
 96 *Gentiana* cf. *vaginalis*
 97 *Anemone triternata* Vahl
 98
 99 *Gentiana*
 100 *Bidens andicola* HBK.
 101
 102
 103
 104
 105 *Echeveria peruviana* Meyen
 106
 107
 108
 109
 110 *Saxifraga magellanica* Poir. sterile
 111
 112 *Perezia multiflora* (H. & B.) Less.
 113 *Castilleja fissifolia* L.
 114
 115 *Perezia*
 116 *Notobryche stenopetala* (Gray) A. W. Hill
 117 *Notobryche longirostris* (Wedd.) A. W. Hill
 118
 119 *Senecio*
 120
 121 *Alternanthera Macbridei* Standl.
 122 *Gentiana*
 123 *Castilleja fissifolia* L. var. *pumila* Wedd.
 124
 125
 126

- 127 *Buddleja coriacea* Remy
- 128 *Matricaria*
- 129 *Chenopodium pallidicaule* Aellen
- 130 *Saya calyptrata* (Cav.) H B K.
- 131 *Conyza artemisiaefolia* Meyen & Walp.
- 132 *Weberbaueria*
- 133
- 134 *Valeriana globiflora* R. & P. ! Killip
- 135 *Descurainia*
- 136 *Tagetes graveolens* L'Herit.
- 137 *Viguiera Pflanzii* Perkins
- 138 *Bartsia*?
- 139 *Oenothera multicaulis* R. & P.
- 140 *Muehlenbeckia volcanica* (Benth.) Endl.
- 141 ? *Erigeron*
- 142 *Malvastrum capitatum* (Cav.) Gris.
- 143 *Notoscordum*
- 144 *Oenothera rosea* Ait.
- 145 *Nicotiana*
- 146 *Cassia latipetiolata* Domb.
- 147 *Solanum*
- 148 *Mentha aquatica* L.
- 149 *Dipsacus fullonum* L.
- 150 *Ranunculus repens* L. var. *pleniflorus* Fernald
- 151 *Rumex crispus* L.
- 152 *Argemone mexicana* L.
- 153
- 154 *Senecio*
- 155 *Plumbago coerulea* H B K.
- 156 *Nicotiana*
- 157 *Calceolaria*
- 158 *Tropaeolum peregrinum* L.
- 159
- 160 *Verbena litoralis* H B K.
- 161 *Gomarea dulcis* (Herb.) Beauv.
- 162 *Satureja revoluta* Briz. ! Epling
- 163 *Liabum ovatum* Ball.
- 164 ? *Werneria*
- 165 *Hypochaeris*
- 166 *Gentiana*
- 167
- 168 *Clematis peruviana* DC.
- 169
- 170 *Plantago tubulosa* Dene.
- 171 ? *Werneria*
- 172
- 173 ? *Erigeron*
- 174
- 175 cf. *Notobriche matthewsii* Hill
- 176
- 177
- 178 *Perezia coerulescens* Wedd.
- 179 ? *Erigeron*
- 180 *Oxalis cernua* Thunb. ! Knuth
- 181 *Lobelia tenera* H B K.
- 182
- 183
- 184 *Passiflora trifoliata* Cav. ! Killip
- 185
- 186
- 187
- 188 *Crassulac.*
- 189 *Siphocampylus venustus* E. Wimm. isotype
- 191 *Calceolaria*

Flowers from the Andes Mountains - Peru.
From Altitudes 10,000 to 17,000 ft. Lat. 10.5° to 11.8° S, & Long. 75.8° to 76.3° W.
Oroya, near Lima.

NAME	Habitat	Root	Stem	Leaves	Height	Calyx	Sepals	Corolla	Petals	Stamens	Pistil	Ovary	Fruit	Seed	Flowers
<i>Ranunculus</i>	1 10-15 Cultiv	fibrous	smooth	auriculate	20-80 cm	pale green	4	lt. yellow	4	4	1-club	4c. inf	many siped	many ltr.	num.
<i>Ranunculus</i>	3 10-16 moist	"	hollow "	dent. obovate	30 cm	reddish gr.	numerous	yellow	num.		1 split	infr	"	many ltr.	several
<i>Ranunculus</i>	4 12-13 moist	"	hollow "	triple, obov	60 "	gr. united									
<i>Ranunculus</i>	5 11-12 cliffs	"	woody	lanceolate	60-150 "	lt. green	5	br. yellow	10	num.	num.	superior			several
<i>Ranunculus</i>	6 10-15 wet	"	hairy	obovate notched	5-40 "	" "	4	white	4-tiny	4	1 flat	superior	many siped		several
<i>Plantago</i>	7 10-12-13 wet	tuberous	"	comp. ovate	15-50 "	gr. united	5	purple	5	5	1-club	infr	"	spherical	"
<i>Gratiola</i>	8 11-12 hills	fibrous	short	linear	5-15 "	lt. green	4	br. green	4	4	1	"	seed pod	several	"
<i>Gratiola</i>	9 10-13 " "	succulent	succ. hairy	comp. dentate	5-40 "	gr. united	5	pink	4	5	1	supr	5-club "	1 pr. cell	umbels
<i>Gratiola</i>	10 13-14 moist	fibrous	smooth	spatulate	2-6 "	gr. united	5 pts	light blue	5 united	5	1	"	long lcp		several
<i>Gratiola</i>	10 12-15 "	"	short	linear	2-3 "										
<i>Gratiola</i>	12 12-13 moist	bulbous	none	linear	4-6 "			br. red							single
<i>Gratiola</i>	13 10-14 "	fibrous	"	ovate rough	2-4 "	red green	many	br. yellow	many	many	many	supr			"
<i>Gratiola</i>	14 11-13 "	"	short woody	spatulate	2-6 "										
<i>Gratiola</i>	15 12-13 gravel	"	hairy	spat. woody	5-10 "										
<i>Gratiola</i>	16 12-14 moist	"	red. low	linear	3-10 "										
<i>Portulaca</i>	17 10-11 d. hills	radish ?	succ. jointed	linear	2-3 "	green brown	2	yellow	5	10	1	infr	old pod	many ltr	several
<i>Alexia</i>	18 10-13 hills	fibrous	reddish hairy	cordate	8-15 "	lt. green	many	white tube	5		1 crvd	"		many	
<i>Alexia</i>	19 10-15 moist	"	"	lanceolate	20-80 "	br. purple	4 united	purplish red	4	8	1	"	long pod	"	several
<i>Leontodon</i>	20 10-13 dry	"	hairy	dentate	5-50 "	green	4	or. white	4				2-club "		
<i>Leontodon</i>	21 10-13 moist	"	hollow milky	sess. sag. comp	15-200 "	"	many	pale yellow	many	2?	1 divided	infr			several
<i>Leontodon</i>	22 10-13 "	"	branching	ovate	5-8 "										
<i>Leontodon</i>	23 12-14 "	"	woody	linear	5-10 "										
<i>Leontodon</i>	24 11-13 rocks	"	hairy	comp. hairy	4-10 "										
<i>Leontodon</i>	25 11-12 moist	"	succulent	trifolium	2-6 "										
<i>Leontodon</i>	26 10-12 gravel	fibrous	woody, ribbed	lance. dentate	20-80 "	dr. green	5 united	pale purple	5 united	5 short	1 pointed	supr	some	many white	num. many
<i>Leontodon</i>	27 10-13 "	"	hairy	spat "	3-20 "	br. "	4	yellow	4	4	1	infr	4-club	many	many
<i>Leontodon</i>	28 11-13 "	"	hairy	comp. wooly	5-20 "										
<i>Leontodon</i>	29 11-13 moist	"	hairy	ovate "	5-20 "										
<i>Leontodon</i>	30 12-13 gravel	"	creeping	cordate	5-25 "										
<i>Leontodon</i>	31 10-13 gravel	"	climbing	linear	10-50 "										
<i>Leontodon</i>	32 10-13 moist	"	hairy	comp. dent.	3-40 "										
<i>Leontodon</i>	33 11-12 gravel	"	"	comp. linear	10-40 "										
<i>Leontodon</i>	34 11-15 gravel	fibrous	woody, pretty	lance. pointed	15-100 "	waxy brown	involucre	red-yllw	many	5 red	1	infr	porch. st	many	many
<i>Leontodon</i>	35 12-14 moist	succulent	short, hairy	comp. hairy	2-6 "										
<i>Leontodon</i>	36 10-13 gravel	fibrous	woody hairy	lance. comp. hairy	cripp	tubular, gr.	5 pts	pink	5-club	4-club	1	infr	old pod	1 pr. cell	many
<i>Leontodon</i>	37 10-14 moist	top	none	linear	2-4 cm										
<i>Leontodon</i>	38 12-14 "	fibrous	short hairy	ovate hairy	2-4 "										
<i>Leontodon</i>	39 10-13 gravel	fibrous	woody hairy	ovate, serr. hairy	10-50 "	und. 2-lob	2	tubular	1 scarlet	2	1	superior	st pod	3?	many
<i>Leontodon</i>	40 10-13 dry	"	"	comp. linear	5-80 "	rd br. tube	5 cusp.	yellow	5	many	many	infr	many siped	many	many
<i>Leontodon</i>	41 11-12 gravel	"	woody	linear	10-40 "										
<i>Leontodon</i>	42 11-13 "	"	"	"	10-40 "										
<i>Leontodon</i>	43 11-13 hill side	fibrous	woody, wooly	linear wooly	20-60 "										
<i>Leontodon</i>	44 11-14 moist	"	creeping	linear, tiny	2-3 crip										
<i>Leontodon</i>	45 12-14 "	succulent	short, dry	comp. dry	2-5 cm										
<i>Alchemilla</i>	46 11-13 wet	fibrous	"	spatulate	2-8 "										
<i>Alchemilla</i>	47 10-14 "	"	red gr. crip	comp. dry	creeper										
<i>Alchemilla</i>	48 10-13 rocky	"	pilay, spiny	sag. dff. dent.	15-75 cm	light green	5 spiny	salmon pink	5 spiny	many	1 + 0	super	old pod	many ltr.	several
<i>Alchemilla</i>	49 10-13 cliff	"	fluted	trifolium	2-25 "	conical, gr.	5	white	5 (red)	10	1	infr		many	many
<i>Alchemilla</i>	50 11-12 moist	"	woody	comp. hairy	4-10 "										

(Thousands feet elevation)

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Lat. 10.5° to 11.8° S., & Long. 75.8° to 76.3° W.

Oroya, near Lima.

NAME	Habitat	Root	Stem	Leaves	Height	Calyx	Sepals	Corolla	Petals	Stamens	Pistil	Ovary	Fruit	Seed	Flowers
51	10-14 moist	fibrous	angular	linear	3-30 cm										
52	11-13 "	"	woody, hairy	linear?	3-10 "										
53	12-13 wet	"	woody	lin. comp.	5-10 "			blue							
54					2-8 "										
55	11-14 moist	"	angular	spat. dent.	creeper										
56					1-2 cm										
57	11-15 moist	fibrous	short woody	linear	1-4 "	gr. involucre	21	red back white	21	disk, 5	lea. dray	super	sunflower	seed -	1 or 2
58	10-15 blades	fib. horiz	triangular	"	5-35 "	brownish	num.				1	inferior	1 old pod	1 ea.	raceme
59	10-3 "	fibrous	woody	ovate, serr.	10-30 "										
60	10-13 wet	"	hollow, fluted	comp. ovate	5-60 "	lt. green	4	white	4	4	1 stubby	superior	2 old pod	many	many
61	11-13 hills	"	woody	spat. lin	8-30 "										
62	10-13 rocks	"	woody, hairy	comp.	10-110 "										
63	10-13 gravel	"	hollow, hairy	comp.	10-60 "										
64	10-4 moist	" carrot	short - nase	spat. incised	5-30 "	green tube	4 cusps	brownish	4		1	infr	seed pod	1 pr. pod	many - split
65	11-13 hills	fibrous	woody	spat. wooly	4-20 "										
66	10-12 gravel	"	woody	linear	20-60 "										
67		"	hollow	ovate, lvs. ind	20-50 "										
68		"	fluted woody	lanc.	30-100 "										
69	10-13 gravel	"	woody	ovate, pointed	20-70 "										
70	10-11 hedges	"	woody, hairy	opp. lanc. tiny	20-100 "	purplish	2 tiny	purple-red	5		1	infr	seed pod	1 flat	pon pon?
71	10-11 dry hills	"	white, wooly	lanc. gr. white	50-100 "	involucere									
72	10-11 moist	"	succulent	reniform	6-25 "	gr. united	1	greenish white	5	none?	2 tiny	infr.	2 old pod	many	many umbels
73	hills	"	woody hairy	ovate, serrate	30-100 "										
74					30-80 "										
75					30-90 "										
76	9-10 hedges	fibrous	woody hollow	sag. rough	60-200 "	blue gr. cup	4 wooly	dark blue	4 united	2 lt. blue	1	inf.	1 old pod	1-4 beams	many spike
77	9-11 roadside	"	round smooth	spat. opp.	80-300 "	yeil. green	1	brt yellow	4 pea	8 on pist.	1	super	pod pod	br. flat	" "
78					15-40 "										
79					10-25 "										
80															
81	12-13 hills	fibrous	flat-grassy	linear											
82	10-11 dry hills	"	woody	lanceolate	30-80 "	gr. tubular	5, cusps	brick red	1 tube, sep	4 on cor.	1	inf.			pairs, many
83															
84															
85	10-13 gravelly	fibrous	hairy	linear											
86	10-14 moist	"	none	spat. hairy	5-15 "										
87	10-13 gravel	"	succulent	trifoliate	10-25 "										
88	12-3 moist	"	stocky	comp. palmate	2-10 "	lt. gr. wooly	5	white	5	5	1	super.	5 cell pod	5 flat	several
89															
90	11-13 gravel	fibrous	succulent	trifoliate cord	5-20 "	lt. green	5 united	yel. brown lines	5	10	5	super.	5 cell pod	5 white	many - close
91	10-14 moist	"	smooth	lin. or spat.	5-20 "										
92	10-15 hills	"	woody	spat. cusp	10-40 "										
93	11-15 "	"	woody	comp. lanc.	5-40 "	lt. gr. wooly	4 united	pale purple	1-2 cell pod	many	1	super	2 cell pod	2 pr. pod	many
94	11-13 rocks	"	hollow smooth		30-120 "										
95	12-15 moist	"	none	linear tiny	.5-2 "										
96															
97															
98															
99	15-16 hills	fibrous	short-sheathed	lanceolate	5-10 "			yellow							
100	10-14 dry hills	"	square	comp. incised	5-60 "	gr. hairy	5-9 united	yellow	5-9	many	many	infr	sunflower	many	several

Margaret Kelenborn.

191 Calceolaria
189 Lobelia
188 Echeveria
184 Begonia
181 Lobelia
180 Orealis
179 Muntingia
178 Peperomia
175 Nephrolepis
177 Talia
173 Muntingia
171 Werneria
170 Plantago
168 Clematis
166 Zinnia
165 Eucalyptus
164 Werneria
163 Muntingia
162 Mint.
161 Bonania
160 Verbena
158 Zinnia
157 Calceolaria
156 Nicotiana
155 Plantago
154 Senecio

153 Muntingia
152 Agave
151 Rhus

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Lat. 10.5° to 11.8° S, & Long 75.8° to 76.3° W.

Oroya near Lima

	Habitat	Root	Stem	Leaves	Height	Calyx	Sepals	Corolla	Petals	Stamens	Pistil	Ovary	Fruit	Seed	Flowers
	101 10-13 moist	fibrous	fluted	linear spat	5-40cm	involute	hairy	yellow	many						
<i>Scrophulariaceae</i>	102 10-14 moist	tuberous	fluted	linear	5-30"										
	103 10-14 "	erect	"	"	5-20"										
	104 10-13 "				5-15"										
<i>Euphorbiaceae</i>	105 10-12 moist	succulent	succulent	suc. lin. w. long	10-60"	gray green	5 pointed	pinkish suc.	5	10	1	supr	scl pod	many	many spits
	106 13-14 moist	fibrous	fluted	lanc. serr	10-25"										
	107														
	108 11-12 moist	bulbous	fluted	linear, long	20-60"										
	109 10-11 h/s's	fibrous	woody hairy	lin. hairy	20-80"										
<i>Umbell.</i>	110 16-17 moist														
<i>Crucif.</i>	111 12 14-15 dry	fibrous	woody	linear	25-60"	green	many	lt green	scuspid	5	1 lavender	inf.	miny scl pod	blk	cluster
<i>Passiflora</i>	112 11-14 moist	"	hairy	lin. dent. spiny	10-120"										
<i>Cact. Rhipsalis</i>	113 10-14 h/s's	"	"		10-30"										
	114 12-15 moist														
<i>Passiflora</i>	115 13-15 "	"	short, sheathed	spat. d. bly. inside	2-3"	lt green	14 or more	pale lavender	many	4	1	inf.	many seeds	parachuted	many
<i>Heliconiaceae</i>	116 13-14 "	tuberous	"	"	1-3"			br red							
<i>Heliconiaceae</i>	117 12-14 "				1-4"										
	118 11-15 moist	fibrous	cactus		2-5"										
<i>Abutil. C. B.</i>	119 12-15 moist	"	creeping	linear	2-10"	dark green	many	reddish	5	5	1	inf	many seeds	many	many
	120 12-15 moist	"	short	wooly	1-3"										
<i>Convolvulaceae</i>	121 14-15 dry	"	woody	spatulate	5-30"										
<i>Scrophulariaceae</i>	122 12-15 h/s's	"	deliquescent	lin. opp	5-20"	dark green	5 un.	pink	5	5	1 split	inf.	long pod	many	many
	123														
	124														
	125														
	126														
	127														
	128														
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